



LACKEBY ROTO-SIEVE® SEPTIC UNIT

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High performance septic receiving with world class screening technology.



## LACKEBY ROTO-SIEVE® SEPTIC UNIT



When high receiving capacity, low costs and reliability are the priorities.

Because of its reliability, long lifetime and low energy consumption, Lackeby Roto-Sieve® septic unit is definitely a worthwhile investment. An automatic flow control and the internal feeding of the septic sludge into the drum with circular perforations, assure the best mechanical separation possible. The result is excellent separation of unwanted fibrous materials which are not desirable in wastewater treatment plants or sludge processing. Due to the high flow capacity, it is possible to quickly empty external septic sludge from tank trucks. Aside from functioning as a septic sludge receiver, the unit can also be used for cleaning by-pass and/or overflow water flows.

### **Water and wastewater applications**

- Septic receiving (external sludge)
- Overflow screening
- By-pass screening





**Septic receiving**



**By-pass and overflow screening**

### High performance

- Due to its large capacity and excellent reliability, the unit is able to empty a tank truck and trailer in approximately 15 minutes.
- High degree of separation due to perforated drum and pressureless separation.
- Automatic flow control based on the septic sludge content ensures optimal flow.
- No sealed openings or internal moving parts that can result in material passing through. The entire flow must pass through a perforated hole to reach the downstream process.

### Low costs

- The lifetime of screen is normally more than 20 years.
- Low degree of maintenance due to self-cleaning design.
- Few moving wear parts which are accessible without cranes or any other lifting devices.
- Low energy consumption.
- Low spray-water consumption assures substantial savings in water costs compared to competing products.

### Design simplicities

- Odour problems are highly reduced or eliminated since there is no accumulation of stagnant liquid.
- The advanced carbon fiber polychain drive system eliminates the need for trunnion wheels. This significantly lowers required maintenance and improves reliability.
- No chains of any kind results in less maintenance issues. No need for automatic oilers.
- Easy access for full visual inspection thanks to lightweight fiberglass covers.



### Swedish innovation and manufacturing since 1965.

Lackeby Products AB has more than 50 years of experience in designing and manufacturing the Lackeby Roto-Sieve® drum screen.

Based on our experience of over 5,000 units sold, we have developed models specially designed for septic sludge. On some models, it is also possible to integrate a screw press with the unit, for example in order to reduce the outlet height.

## Models



RSS 24



RSS 36

## Technical data

		RSS 24	RSS 36
Max capacity <sup>1)</sup>	l/s	20-28	28-36
Perforation	mm	6.0	6.0
Noise level at 1m <sup>2)</sup>	dBA	<70	<70
Length <sup>3)</sup>	mm	3180	3195
Width <sup>3)</sup>	mm	1200	1420
Height	mm	1550	1950
Net weight <sup>4)</sup>	kg	330	630
Working load <sup>5)</sup>	kg	370	675
Gross weight	kg	510	770
Length (crate)	mm	3100	3150
Width (crate)	mm	1200	1500
Height (crate)	mm	1800	2200
Transport volume (crate)	m <sup>3</sup>	6.7	10.4
Drive motor. rated power	kW	0.37	0.55
Drive motor. rated current	A	1.89 / 1.09	2.44 / 1.41
Inlet pipe	Ø mm	DN100 Tycoflex or Camlock	DN100 Tycoflex or Camlock
Outlet pipe	Ø mm	400	500
Overflow outlet pipe	Ø mm	200	250
Spray header connection	ISO	R1"	R1"
Recommended spray water pressure	bar	5 - 8	5 - 8
Spray water consumption at 5 bar	l/min	72	72

<sup>1)</sup> The emptying capacity is self-regulating and depends on the characteristic of the sludge.

<sup>2)</sup> Noise level of the septic unit.

<sup>3)</sup> Length and width include the inlet pipe for sludge emptying installations. (The inlet pipe has to be mounted by the customer).

<sup>4)</sup> The weight includes the inlet pipe for sludge emptying installations.

<sup>5)</sup> Static weight with the drum filled with sludge to the overflow level.

Lackeby Products AB has more than 50 years of experience in designing and manufacturing high performance products for resource-efficient heat recovery and wastewater recycling. In our production facilities in Sweden we have made thousands of products for the toughest environments world wide.

We are well known for our ability to customize products to each customer's unique requirements. All of our products are characterized by reliability, long life cycles and easy maintenance making Lackeby Products a trusted partner and supplier of products for plant upgrades or new plant constructions. We guarantee high quality, excellent performance and complete satisfaction.